

# Oracle Communications Service Activation Overview

*Updated January 2007*



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## **THE NEED FOR A NEXT-GENERATION ACTIVATION PLATFORM**

The rapid pace of technological change and the drive toward network convergence continue to shift market dynamics in the telecommunications industry and create new business opportunities and challenges. To meet the needs of the future, service providers are transitioning from multiple special-purpose networks to a unified IP-based core network.

In this environment, service providers are looking for a sophisticated, scalable next-generation service activation platform that

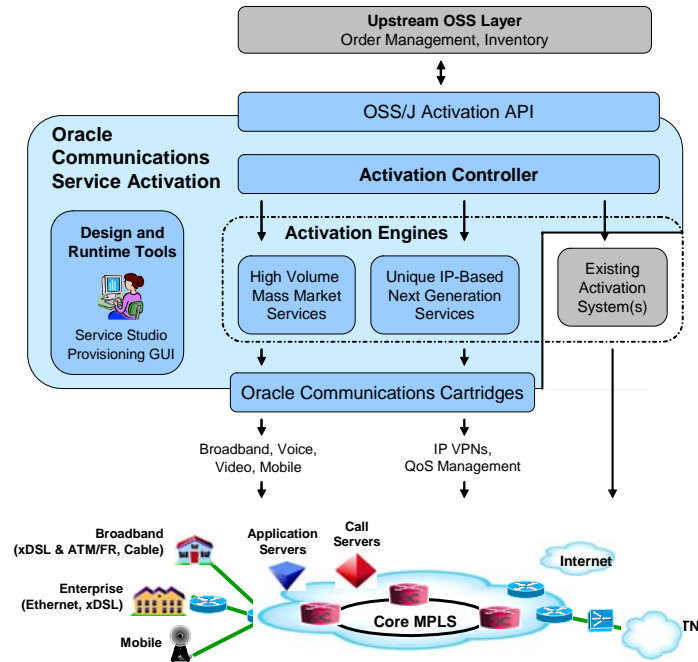
- Reduces costs and shortens time to revenue by automating activation across all technology and service domains
- Enables rapid service introduction and efficient service bundling
- Provides strong support for sophisticated, quality of service (QoS)-enabled, IP-based services
- Leverages investments in legacy activation systems and enables a cost-effective and seamless transition of services to a next-generation activation architecture
- Supports concurrent activation for mass-market subscriber services as well as unique designer services
- Insulates and abstracts activation processing details for multiservice requests from upstream operations support system (OSS) platforms
- Has a standards-based architecture that integrates easily with other business and operations support system (BOSS) platforms and is readily adaptable to new technologies

## **INTRODUCING ORACLE COMMUNICATIONS SERVICE ACTIVATION**

Oracle Communications Service Activation, a key component of the Oracle Communications Service Fulfillment portfolio, is a next-generation activation platform that provides integrated multiservice activation across all technology domains. The solution innovatively addresses the activation of both high-volume mass-market services and more-complex designer services, using a combination of stateless and stateful activation.

**Oracle Communications Service Activation** innovatively addresses the activation of high-volume mass-market services and more-complex designer services, using a combination of stateless and stateful activation.

Complex activation processes are seamlessly enabled through the integration of two complementary Oracle Communications Service Activation solutions: Oracle Communications ASAP and Oracle Communications IPSA. Oracle Communications ASAP is a comprehensive multitechnology, multivendor activation platform. Oracle Communications IPSA is an expert activation engine uniquely focused on delivering QoS-enabled IP-based services.



**Oracle Communications Service Activation**

### Centralized Activation Control

Oracle Communications Service Activation enables service providers to centralize activation control for all service and technology domains, including ones that are currently supported by existing activation systems. Its robust next-generation platform provides transactional integrity across the end-to-end activation process. A request consisting of multiple services is coordinated for each service and is activated in the correct sequence on required network and application server components. Oracle Communications Service Activation provides a full audit trail for each activation request and supports a range of advanced activation processing features, including order control, cancellations, supplemental orders, intelligent error processing, and configurable rollback. This end-to-end activation control

- Enhances transactional integrity and enables real-time service delivery for complex multiservice activation requests
- Limits capital expenditure (CAPEX) by leveraging investments in existing activation systems as service providers transition to next-generation services

- Reduces operating expenses (OPEX) by enabling systems consolidation as service providers transition to a single more-cost-effective, multiservice activation platform
- Provides a low-risk and cost-effective evolution path for transitioning current activation systems to a next-generation activation platform
- Simplifies the overall BOSS architecture by insulating and abstracting complex activation processing details from upstream systems

### **Strong Support for Unique IP-Based Next-Generation Services**

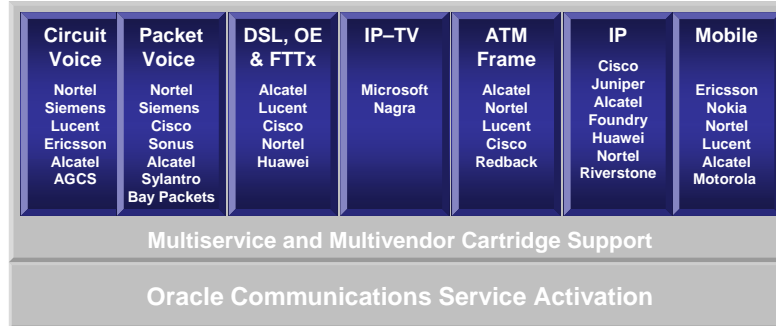
Increasingly, from the network core to the end subscriber, IP technologies are used to deliver next-generation services. The activation of IP-based services is often complex and requires sophisticated knowledge of both the network and the delivered services. Oracle Communications Service Activation provides comprehensive and intelligent activation support for expert IP-based services. It

- Automates the configuration and activation of complex IP virtual private network (VPN) services and key networking technologies, including Layer 2 and Layer 3 multiprotocol label switching (MPLS) VPNs, Ethernet, virtual private LAN services (VPLS), internet protocol security (IPsec), and QoS
- Enables network optimization and synchronization through a powerful discovery engine that retrieves network topology and capability information
- Supports a flexible, role-oriented, inheritance-based approach to service configuration and QoS management
- Offers prebuilt expert service models and stateful cartridges for Layer 2 and Layer 3 MPLS VPNs, QoS management, and other key networking technologies

### **Prebuilt Multiservice, Multivendor Support with Cartridges**

Oracle Communications Service Activation delivers ultimate flexibility and agility in a multiservice environment through Oracle Communications cartridges. Oracle Communications cartridges are optional software add-ons that provide prebuilt activation support for specific families of services and technologies such as voice over IP (VoIP), IP VPN, mobile, and broadband.

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#### Oracle Communications Service Activation cartridges

**Preintegrated cartridges also have a positive impact on the bottom line. Not only are they critical for reducing time to market and time to revenue, but they are also key to reducing the total cost of ownership of Oracle Communications Service Activation.**

Oracle Communications Service Activation leads the industry in prebuilt cartridge support. The solution is preintegrated with more than 110 Oracle Communications cartridges—including stateless cartridges designed for predictable and repetitive mass-market services and stateful cartridges that support complex IP-based activation services.

Oracle Communications Service Activation cartridges enable you to quickly, cost-effectively, and seamlessly evolve the solution to support emerging business needs. These preintegrated cartridges also have a positive impact on the bottom line. Not only are they critical for reducing time to market and time to revenue, but they are also key to reducing the total cost of ownership of Oracle Communications Service Activation.

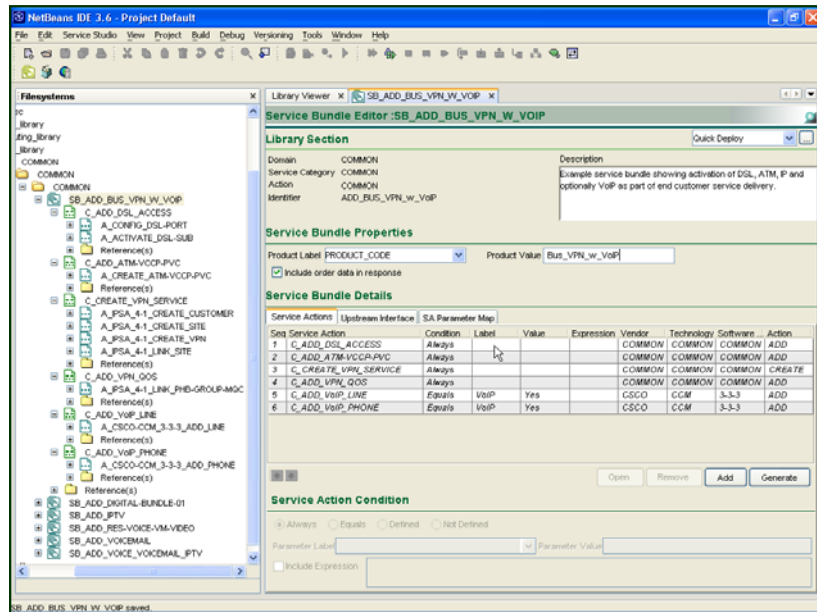
#### Rapid Service Introduction With the Service Creation Environment

Oracle Communications Service Activation also includes a Service Creation Environment module that simplifies service design and bundling across multiple domains. This module is a powerful graphical tool that supports cartridge downloads and the entire lifecycle of service development, allowing you to quickly define new services, extend services already defined, and rebundle services when needed.

This tool dramatically reduces time to market for new services and offers these features:

- Full compatibility with Oracle Communications cartridges
- Flexibility to extend or build cartridges in a multiteam environment by using the Integrated Development Environment (IDE)

- Service libraries that simplify the management of services and bundles in a complex service environment
- Service deployment lists that simplify the packaging and deployment of services in various activation environments



Oracle Communications ASAP Module - Service Creation Environment IDE GUI

## Industry-Leading Performance, Scalability, and Resilience

Oracle Communications Service Activation is built on a robust architecture that can process millions of requests per day for multiple services across multiple locations. In recent field trials, it processed more than 250 million independent network updates in a 100-hour period. Designed for the largest Tier 1 service providers, this industry-leading service activation platform offers impressive performance, scalability, and resilience.

- A throughput rate of 100 orders per second, with each order containing an average of seven independent network updates
- An average order response time between one and two seconds

In recent field trials, Oracle Communications Service Activation processed more than 250 million independent network updates in a 100-hour period.

## **Strong Upstream Operations Support System and Portal Integration**

Oracle Communications Service Activation is designed to simplify, streamline, and accelerate upstream OSS and customer care portal integration. It includes the following design features:

- A standards-based OSS-through-Java (OSS/J) activation API that provides a single upstream integration interface for multiservice requests across all domains
- A service request translator (SRT) component that automatically transforms inbound Extensible Markup Language (XML)-based activation requests into the OSS/J format used by Oracle Communications Service Activation

## **Flexible Implementation Approach**

You can elect to deploy the individual capabilities of Oracle Communications Service Activation and then leverage the integrated capabilities later. Upwardly compatible with both Oracle Communications ASAP and Oracle Communications IPSA, the next-generation platform provides a smooth, risk-free transition to advanced functionality.

## **CONCLUSION**

In today's rapidly changing business environment, Oracle Communications Service Activation sets a new benchmark in multiservice next-generation activation. The solution's multivendor, multiservice activation capabilities have been deployed by more than 75 service providers in more than 26 countries for an array of services, including VoIP, IP VPN, mobile, broadband, voice, and data.

## **CONTACT US**

For more information on Oracle Communications Service Activation, call +1.800.ORACLE1 to speak to an Oracle representative or visit [oracle.com](http://oracle.com).



Oracle Communicatons Service Activation Overview  
Updated January 2007

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